

Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

TRANSACTIONS

OF

THE SOCIETY

O F

Arts, Manufactures, and Commerce.

VOL. LIII.—PART II.

FOR THE SESSION 1840-41.

LONDON:

PRINTED BY MOYES AND BARCLAY, CASTLE STREET,

LEICESTER SQUARE.

CONTENTS.

PART II.

FINE ARTS.	
	PAGE
Mr. George Simpson on Paper Anatomical Models	3
Mr. Lynch Cotton on a Paper-Stretcher for Drawings	8
CHEMISTRY.	
CHEMISTRI.	
Mr. Robert Murray on the Application of Plumbago to	
Non-Conducting Substances for the Production of	
Voltatypes	10
Mr. Lewis Thompson on a Process for Assaying the Ores	
of Manganese	18
Mr. EDWARD BENTLEY on Prepared Vegetable Juices	26
Mr. W. J. T. Morton on a Galvanic Test Apparatus for	
Arsenic	29
COLONIES AND EDADE	
COLONIES AND TRADE.	
Captain JOHN CAMPBELL on Palmyra-Tree Sugar and	
Hill-Paddy	3 5
Mr. W. A. CLEMENTS on Diminution of Labour on Sugar	
Plantations	39
MANUFACTURES.	
Mr. W. M'GRATH on an Improved Roll for Weaving	
Valvet	56

CONTENTS.

	PAGE
Messrs. D. and H. Potts on their Loom for Weaving Wicker-Chair Bottoms	59
Mr. S. GILDERSLEVE Mr. JAMES SLATER Mr. S. LARWOOD On Shuttle-boxes for Weaving wide Velvet	65
Mr. Wm. Rooke on an Apparatus for taking in the Shoot of Wide-woven Fabrics	71
MECHANICS.	
Mr. A. Ross on a Spherometer	74
Mr. Hugh Powell on his Improved Microscope	78
Mr. H. HARISON on a Life-Apparatus for Shipwreck	81
Mr. H. DE JAY DE BEAUFORT on a Self-acting Vice	86
Mr. D. Thomas on a Candle-Guard	88
Mr. T. WEEKS on a Machine for Tinning Sheet-copper	90
Mr. W. Hill on an Organ-Valve	98
Mr. Benjamin Barrow on an Adjustable Joint-splint	102
Mr. C. T. COATHUPE on a Door-Fastener	109
Mr. H. E. Bridge on his System of Instructing the Blind	111
Mr. R. M'EWEN on Preventing Explosion in Steam-	
engine Boilers	117
List of Presents received by the Society	124

TRANSACTIONS

OF

THE SOCIETY,

DURING THE SESSION 1841 42.